

What is claimed is:

1. A process for transporting a particulate water-absorbent resin, which comprises a step of transporting a particulate water-absorbent resin obtained by pulverizing a dry water-absorbent resin product,

5 with the process being characterized by carrying out at least one selected from the group consisting of:

(1) heating at least one portion of a surface getting contact with the particulate water-absorbent resin from the outside,

10 (2) maintaining the temperature of at least one portion of a surface getting contact with the particulate water-absorbent resin at 30 to 150 °C, and

(3) maintaining the temperature of at least one portion of a surface getting contact with the particulate water-absorbent resin above a temperature that is lower than a temperature of the particulate water-absorbent resin by 20 °C,

15 when transporting the particulate water-absorbent resin.

2. A process for transporting a particulate water-absorbent resin according to claim 1, wherein the particulate water-absorbent resin is a surface-crosslinked particulate water-absorbent resin.

20 3. A process for transporting a particulate water-absorbent resin according to claim 2, wherein the surface-crosslinked particulate water-absorbent resin contains at least a polyhydric alcohol.

4. A process for transporting a particulate water-absorbent resin according to claim 2, wherein the absorption capacity of the surface-crosslinked particulate water-absorbent resin under a load is not less than 18 g/g.

5. A process for transporting a particulate water-absorbent resin according to claim 1, wherein the particulate water-absorbent resin is a crosslinked partially-neutralized polycarboxylic acid salt.

6. A process for transporting a particulate water-absorbent resin according to claim 1, wherein the dry water-absorbent resin product is a dry product obtained by drying at 160 to 250 °C.

7. A process for storing a particulate water-absorbent resin, which comprises a step of storing a particulate water-absorbent resin obtained by pulverizing a dry water-absorbent resin product,

with the process being characterized by carrying out at least one selected from the group consisting of:

(1) heating at least one portion of a surface getting contact with the particulate water-absorbent resin from the outside,

(2) maintaining the temperature of at least one portion of a surface getting contact with the particulate water-absorbent resin at 30 to 150 °C, and

(3) maintaining the temperature of at least one portion of a surface getting contact with the particulate water-absorbent resin above a temperature that is lower than a temperature of the particulate water-

absorbent resin by 20 °C,
when storing the particulate water-absorbent resin.

5 8. A process for storing a particulate water-absorbent resin according to claim 7, wherein the particulate water-absorbent resin is a surface-crosslinked particulate water-absorbent resin.

9. A process for storing a particulate water-absorbent resin according to claim 8, wherein the surface-crosslinked particulate water-absorbent resin contains at least a polyhydric alcohol.

10 10. A process for storing a particulate water-absorbent resin according to claim 8, wherein the absorption capacity of the surface-crosslinked particulate water-absorbent resin under a load is not less than 18 g/g.

15 11. A process for storing a particulate water-absorbent resin according to claim 7, wherein the particulate water-absorbent resin is a crosslinked partially-neutralized polycarboxylic acid salt.

12. A process for storing a particulate water-absorbent resin according to claim 7, wherein the dry water-absorbent resin product is a dry product obtained by drying at 160 to 250 °C.

20 13. A process for producing a particulate water-absorbent resin, which comprises a step of pulverizing a dry water-absorbent resin product

in order to obtain a particulate water-absorbent resin in part of the entire steps,

with the process being characterized by carrying out at least one selected from the group consisting of:

5 (1) heating at least one portion of a surface getting contact with the particulate water-absorbent resin from the outside,

(2) maintaining the temperature of at least one portion of a surface getting contact with the particulate water-absorbent resin at 30 to 150 °C, and

10 (3) maintaining the temperature of at least one portion of a surface getting contact with the particulate water-absorbent resin above a temperature that is lower than a temperature of the particulate water-absorbent resin by 20 °C, in the step of pulverizing.

15 14. A process for producing a particulate water-absorbent resin according to claim 13, wherein the particulate water-absorbent resin is a crosslinked partially-neutralized polycarboxylic acid salt.

20 15. A process for producing a particulate water-absorbent resin according to claim 13, wherein the dry water-absorbent resin product is a dry product obtained by drying at 160 to 250 °C.